

**Exhibit A**  
**U.S. Patents and Patent Applications**

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-018Z	Deflector Guiding Catheter	06/504,141	Parent	14-Jun-83	Issued 4,774,949
TRNSV-020A	Coronary Intravascular Ultrasound Imaging Method and Apparatus	07/700,625	Parent	15-May-91	Issued 5,193,546
TRNSV-054A	Method for Treatment of Ischemic Heart Disease by Providing Transvenous Myocardial Perfusion	08/714,466	Parent	16-Sep-96	Issued 5,655,548
TRNSV-054G	Apparatus for Treatment of Ischemic Heart Disease by Providing Transvenous Myocardial Perfusion	08/798,700	Divisional	12-Feb-97	Issued 5,824,071
TRNSV-003A	A Device, System and Method for Interstitial Transvascular Intervention	08/730,496	Parent	11-Oct-96	Issued 5,830,222
TRNSV-046A	Catheter Apparatus and Methodology for Generating a Fistula On-Demand Between Closely Associated Blood Vessels at a Pre-Chosen Anatomic Site In-Vivo	08/616,588	Parent	15-Mar-96	Issued 5,830,224
TRNSV-052A	Device for Forming Holes in Tissue	09/009,135	Parent	20-Jan-98	Issued 6,015,504
212/047	Transvascular TMR Device and Method	08/745,869	Parent	8-Nov-96	Issued 6,042,581
212/067	Transvascular TMR Device and Method	08/819,948	CIP	18-Mar-97	Issued 6,053,911
TRNSV-003C	Methods for Interstitial Transvascular Intervention and Revascularization	09/179,809	Continuation	27-Oct-98	Issued 6,068,638
TRNSV-017A	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Junctions in, Luminal Anatomic	08/896,307	Parent	28-Jun-97	Issued 6,071,292
TRNSV-046G1	Catheter Apparatus and Methodology for Generating a Fistula On-Demand Between Closely Associated Blood Vessels at a Pre-Chosen Anatomic Site In-Vivo	09/134,995	Divisional	17-Aug-98	Issued 6,099,542
TRNSV-051A	Steerable Catheter with External Guidewire As Catheter Tip Deflector	09/329,386	Parent	10-Jun-99	Issued 6,126,649
TRNSV-003G2	Device for Interstitial Transvascular Intervention and Revascularization	09/181,013	Divisional	27-Oct-98	Issued 6,159,225
TRNSV-054B/B2	Methods and Apparatus for Treating Ischemic Heart Disease by providing Transvenous Myocardial Perfusion	09/208,807	CIP	9-Dec-98	Issued 6,186,972
TRNSV-001A	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	08/730,327	Parent	11-Oct-96	Issued 6,190,353
TRNSV-003G3	Devices for Connecting Anatomical Conduits such as Vascular Structures	09/267,943	Divisional	11-Mar-99	Issued 6,231,587

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-003B	Percutaneous In Situ Coronary Bypass Method and Apparatus	09/192,554	Parent	10-Aug-98	Issued 6,283,983
14768-7001	Systems and Methods for Delivering Drugs to Selected Locations Within the Body	09/048,147	CIP	25-Mar-98	Issued 6,283,951
TRNSV-017G	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Junctions in, Luminal Anatomic	09/543,251	Divisional	5-Apr-00	Issued 6,287,317
TRNSV-015A	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	08/837,294	CIP	11-Apr-97	Issued 6,302,875
14768-7002	Deformable Scaffolding Multicellular Stent	09/089,032	CIP	2-Jun-98	Issued 6,330,884
TRNSV-029A	Tissue Penetrating Catheters having Integral Imaging Transducers and their Methods of Use	09/282,774	Parent	30-Jul-99	Issued 6,375,615
14768-7004	Systems and Methods for Directing and Snaring Guidewires	09/179,737	CIP	27-Oct-98	Issued 6,379,319
TRNSV-022A	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	08/970,694	CIP	14-Nov-97	Issued 6,432,127
TRNSV-054B	Methods and Apparatus for Treating Ischemic Heart Disease by Providing Transvenous Myocardial Perfusion	08/929,076	CIP	15-Sep-97	Issued 6,447,539
TRNSV-017G2	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Junctions in, Luminal Anatomic	09/908,337	Continuation	18-Jul-01	Issued 6,491,707
TRNSV-028A	Catheters, Systems and Methods for Percutaneous In Situ Arterio-Venous Bypass	09/282,276	Parent	31-Mar-99	Issued 6,544,230
TRNSV-024A	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	09/056,589	Parent	7-Apr-98	Issued 6,561,998
TRNSV-014US	Methods and Apparatus for Connecting Openings Formed in Adjacent Blood Vessels or Other Anatomical Structures	09/117,520	US/PCT	29-Jul-98	Issued 6,616,675
TRNSV-016US	Methods and Apparatus for Blocking Flow Through Blood Vessels	09/117,516	Parent	29-Jul-98	Pending Allowed
TRNSV-016US-G	Methods and Apparatus for Blocking Flow Through Blood Vessels	TBD	Divisional	29-Aug-03	Pending
TRNSV-005US	A Device, System and Method for Interstitial Transvascular Intervention	09/117,515	Parent	2-Aug-98	Issued 6,567,311
TRNSV-003G1	System and Method for Delivery of Therapeutic Agents to Intracorporeal Sites	09/181,701	Divisional	28-Oct-98	Pending Allowed
TRNSV-003G1-C	System and Method for Delivery of Therapeutic Agents to Intracorporeal Sites	TBD	Continuation	5-Aug-03	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-056A	Pressure-Controlled Continuous Coronary Sinus Occlusion Device and Methods of Use	09/275,797	Parent	25-Mar-99	Issued 6,569,145
TRNSV-037A	Sterility Barriers for Insertion of Non-Sterile Apparatus Into Catheters or Other Medical Devices	09/505,149	Parent	15-Feb-00	Issued 6,589,164
TRNSV-043A	Catheter-Based Methods, Apparatuses and Systems for Enlarging Blood Vessels to Facilitate the Formation of Penetration Tracts, Fistulas and/or Blood Flow Channels	09/507,139	Parent	18-Feb-00	Issued 6,508,824
212/247	Transvascular TMR Device and Method	09/557,628	Continuation	25-Apr-00	Pending
TRNSV-001G	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	09/639,963	Divisional	16-Aug-00	Pending
TRNSV-057A	Methods and Apparatus for Acute or Chronic Delivery of Substances or Apparatus to Extravascular Treatment Sites	09/766,502	Parent	17-Jan-01	Issued 6,602,241
TRNSV-057C	Methods and Apparatus for Acute or Chronic Delivery of Substances or Apparatus to Extravascular Treatment Sites	TBD	Continuation	10-Jun-03	Pending
TRNSV-065A	Methods for Bypassing Total or Near-Total Obstructions in Arteries or other Anatomical Conduits	09/860,147	CIP	17-May-01	Pending
24768-7013	Apparatus and Methods for Creating a Channel Between Adjacent Body Lumens	09/539,639	Parent	30-Mar-00	Pending
212/481	Transvascular TMR Device and Method	TBA	Continuation	15-May-03	Pending
TRNSV-055B/B2	Apparatus for Providing Coronary Retoperfusion and Methods of Use	09/320,172	CIP	26-May-99	Pending
14768-7003	Over-The-Wire Apparatus and Method for Open Surgery Making of a Fluid Connection Between Two neighboring Vessels	09/478,109	Parent	4-Jan-00	Pending
212/245	TransVascular TMR Device and Method	09/536,622	Continuation	28-Mar-00	Pending
TRNSV-044A	Stabilized Tissue Penetrating Catheters	09/538,119	CIP	29-Mar-00	Pending
TRNSV-053A	Transluminally Deliverable Vascular Blockers and Methods for Facilitating Retrograde Flow or Arterial Blood through Veins	09/613,675	Parent	11-Jul-00	Pending
TRNSV-001C	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	09/708,932	Continuation	18-Nov-00	Pending
TRNSV-013BC	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	09/710,332	Continuation	9-Nov-00	Pending
TRNSV-055C	Apparatus for Providing Coronary Retoperfusion and/or Left Ventricular Assist and Methods of Use	09/794,297	Continuation	27-Feb-01	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
24768-7021	Systems and Methods for Delivering Drugs to Selected Locations Within the Body	09/826,049	Divisional	3-Apr-01	Pending
TRNSV-022C	Devices for Forming and/or Maintaining Connections Between Openings in an Anatomical Conduits	09/845,372	Continuation	30-Apr-01	Pending
TRNSV-015G	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	09/912,122	Divisional	24-Jul-01	Pending
TRNSV-022G	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	09/911,975	Divisional	24-Jul-01	Pending
7030190001	Deformable Scaffolding Multicellular Stent	09/933,295	Divisional	20-Aug-01	Pending
TRNSV-046G2C	Catheter Apparatus and Methodology for Generating a Fistula On-Demand Between Closely Associated Blood Vessels at a Pre-Chosen Anatomic Site In-Vivo	09/960,003	Continuation	21-Sep-01	Pending
TRNSV-013BC2	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	09/994,222	Continuation	26-Nov-01	Pending
TRNSV-029C	Tissue penetrating catheters having integral imaging transducers and their methods of use	10/033,836	Continuation	26-Dec-01	Pending/ Allowed
273/098	Systems and Methods for Directing and Snaring Guidewires	10/136,929	Divisional	30-Apr-02	Pending
TRNSV-013BC3	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	10/150,306	Continuation	16-May-02	Pending
TRNSV-017G3	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Junctions in, Luminal Anatomic	10/259,210	Divisional	27-Sep-02	Pending
TRNSV-024C	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	10/346,556	Continuation	17-Jan-03	Pending
TRNSV-065C 72025 CON 2-	Methods for Bypassing Total or Near-Total Obstructions in Arteries or other Anatomical Conduits	10/370,201 10/370,231	Continuation	19-Feb-03	Pending
TRNSV-028G	Catheters, Systems and Methods for Percutaneous In Situ Arterio-Venous Bypass	10/370,429	Divisional	20-Feb-03	Pending
TRNSV-096N	Optically Guided Penetration Catheters and Their Methods of Use	60/455,015	Provisional	13-Mar-03	Pending
TRNSV-083A	Implantable Lumen Occluding Devices and Methods	10/391,481	Parent	17-Mar-03	Pending
TRNSV-086A	Devices and Methods for Transluminal - Interstitial Electrode Placement	10/411,891	Parent	11-Apr-03	Pending
TRNSV-001G2	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	10/425,543	Divisional	29-Apr-03	Pending

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TRNSV-005C	A Device, System and Method for Interstitial Transvascular Intervention	10/425,756	Continuation	29-Apr-03	Pending
TRNSV-014C	Methods and Apparatus for Connecting Openings Formed in Adjacent Blood Vessels or Other Anatomical Structures	10/436,016	Continuation	12-May-03	Pending
TRNSV-064PC	Methods and Apparatus for Guided Transluminal Interventions using Vessel Wall Penetrating Catheters and other Apparatus	PCT/US02/ 03941	PCT	6-Feb-02	Pending
TRNSV-083PC	Implantable Lumen Occluding Devices and Methods	PCT/US03/ 08015	PCT	17-Mar-03	Pending
TRNSV-086PC	Devices and Methods for Transluminal - Interstitial Electrode Placement	PCT/US03/ 11284	PCT	11-Apr-03	Pending
TRNSV-052A	Device for Forming Holes in Tissue	09/009,135	Parent	20-Jan-98	Issued
TRNSV-051A	Steerable Catheter with External Guidewire As Catheter Tip Deflector	09/329,386	Parent	10-Jun-99	Issued 6,015,504
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